

30. 4823

Effects of Destruction of Petroleum Storage at
Hanoi and Haiphong on the War in South Vietnam

Responsibility

Summary

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| R/FP | I. Availability of Petroleum Storage Capacity in North Vietnam |
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| | 1. Total Storage Capacity |
| | 2. Total in Bulk Storage |
| | 3. Total in Dispersed Storage |
| | 4. Total Storage at Hanoi |
| | 5. Total Storage at Haiphong |
| | II. Consumption of Petroleum Available in North Vietnam |
| R/FP | 1. Total Availability |
| | a. In 1965 |
| | b. In 1966 |
| R/FP | 2. Civilian Requirements |
| | a. In 1965 |
| | b. In 1966 |
| R/FP | 3. Military Requirements in North Vietnam |
| | a. In 1965 |
| | b. In 1966 |
| T/TR | 4. Requirements for Support of War in South Vietnam |
| | a. In 1965 |
| | b. In 1966 |
| | (1) With Current OB of 125 battalions in Main Force and Present Scale of Combat of 1 day in 30. |
| | (2) With Build-up to 155 battalions in Main Force and Increase in Scale of Combat to 1 day in 7. |
| | (3) With Build-up to Use of Infiltration Routes through Laos to Maximum Capacity. |

Responsibility ~~SECRET~~

III. Physical Vulnerability of Petroleum Storage at Hanoi and
Haiphong

T/TR and R/FP

1. Target Environment

- a. Location of Targets
- b. Probability of Civilian Casualties

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2. Recommended Method of Attack to Minimize Civilian
Casualties

- a. Technique of Attack
- b. Force Requirements
 - (1) Sorties
 - (2) Number, type and weight of bombs
- c. Estimate of Physical Destruction

IV. Estimated Direct Effects and Alternatives Resulting from
Destruction of Targets

1. Direct Effects

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- a. On Petroleum Distribution (through flow)
 - (1) To Other Bulk Storage Facilities
 - (2) To Dispersed Storage Facilities

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- b. On Availability of Petroleum
 - (1) For Civilian Use
 - (2) For Military Use in North Vietnam
 - (3) For Use in Support of War in South Vietnamon Assumptions in II.4.b, above.

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2. Alternatives

- a. Reduction of Civilian and Military Requirements
in North Vietnam
- b. Off-Shore Transshipment of Petroleum from Coastal
Ships

Responsibility

~~Summary~~

c. Use of Petroleum Storage and Transportation

Routes of China.

d. Use of Other Petroleum Storage and Transportation

Routes.

e. Use of Dispersed Storage.

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3. Vulnerabilities of Alternatives, Particularly 2.e.,
above.

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V. Conclusions

1. Impact on the Economy and Military in North Vietnam.
2. Impact on Support of War in South Vietnam under
Assumptions in II.4.b., above.

Graphics

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1. Map - Showing Distribution and Percent of Total Petroleum
Storage.

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2. City Plans *and* Mosaics Showing Targets in Hanoi and Haiphong.

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3. Photographs of New Dispersed Petroleum Storage Facilities.